



Swept volume
Constructed from the generated traces of the motion of a subset of
edges bounded by the subset of triangles
(Dashed: rejected / Solid: kept)

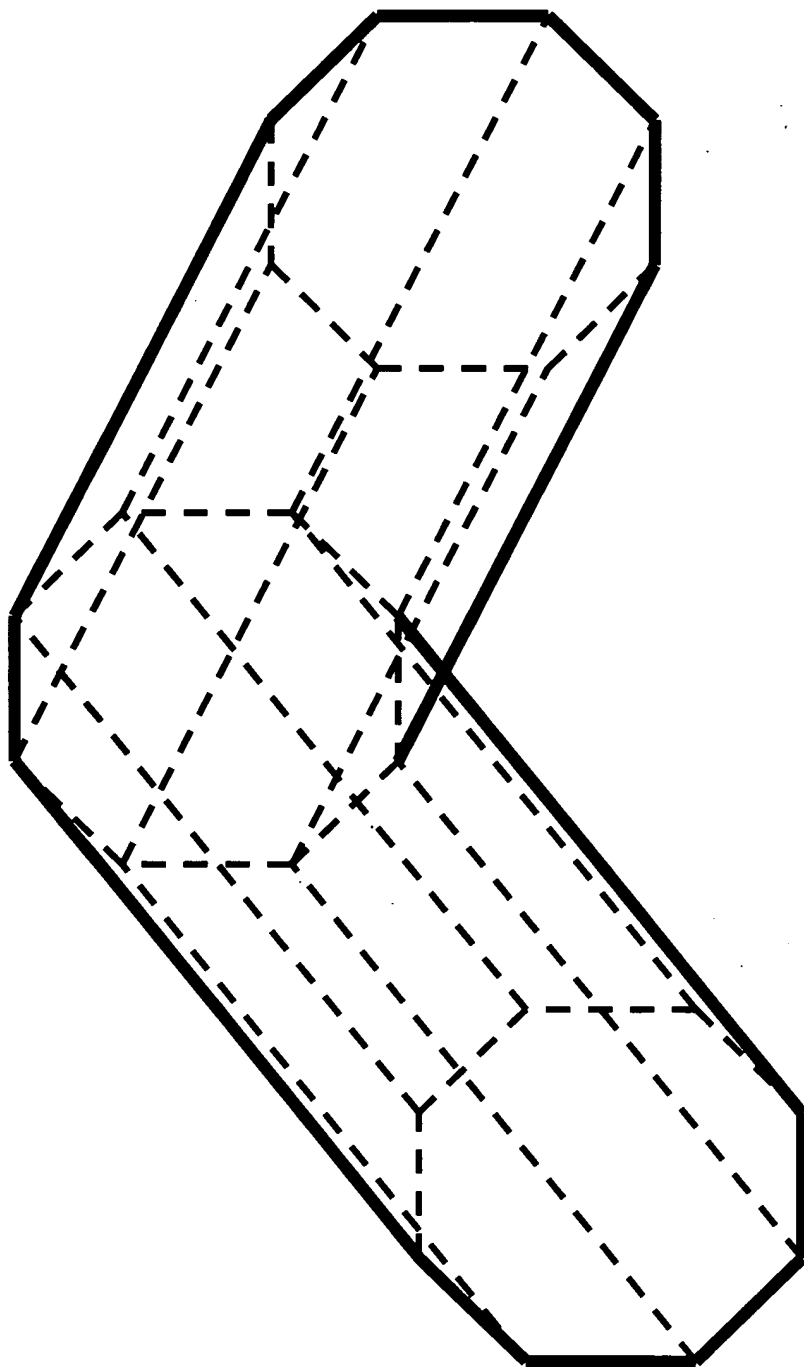


Fig. 2

First example, translation

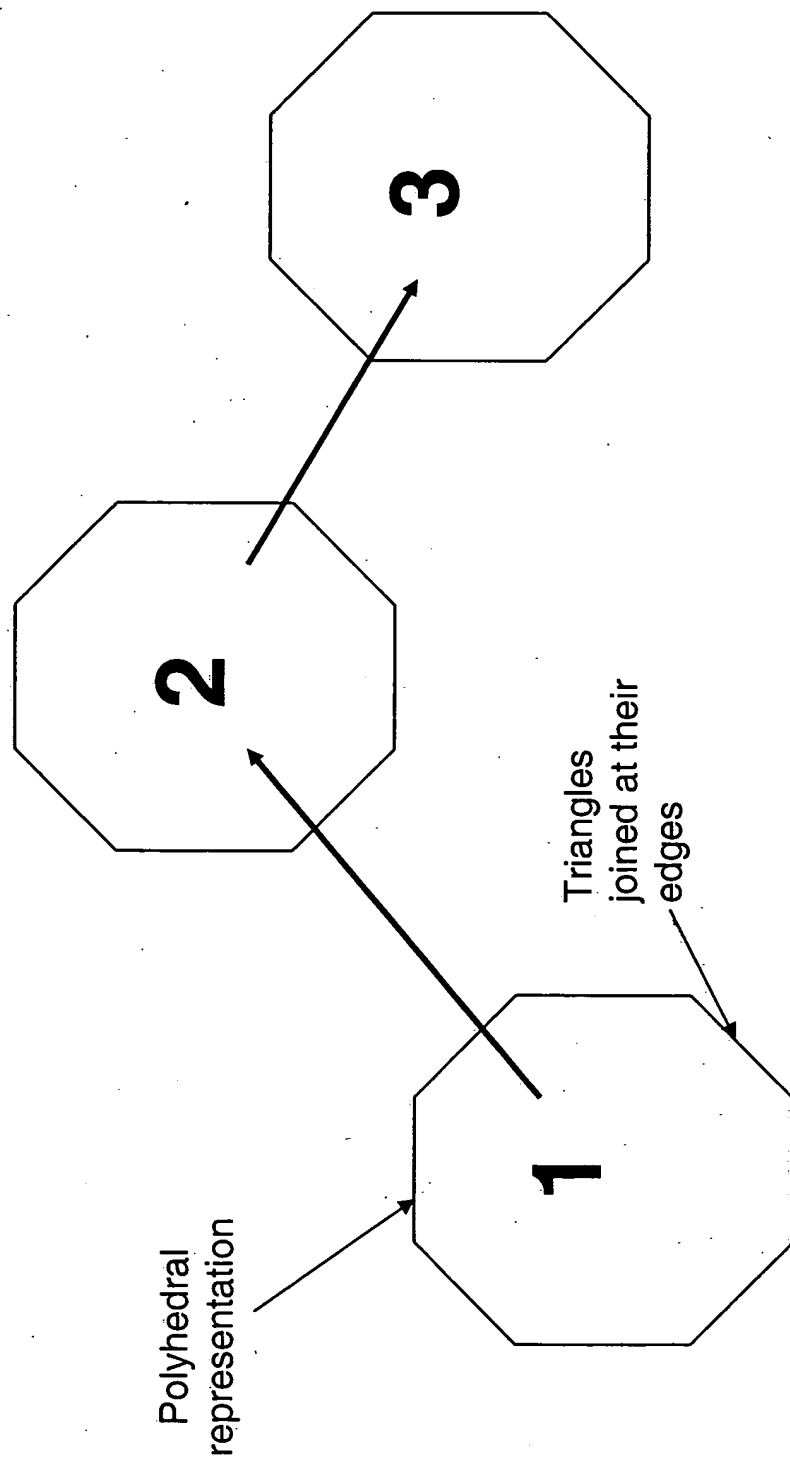


Fig. 6A

Selection of edges and their traces
in first zone

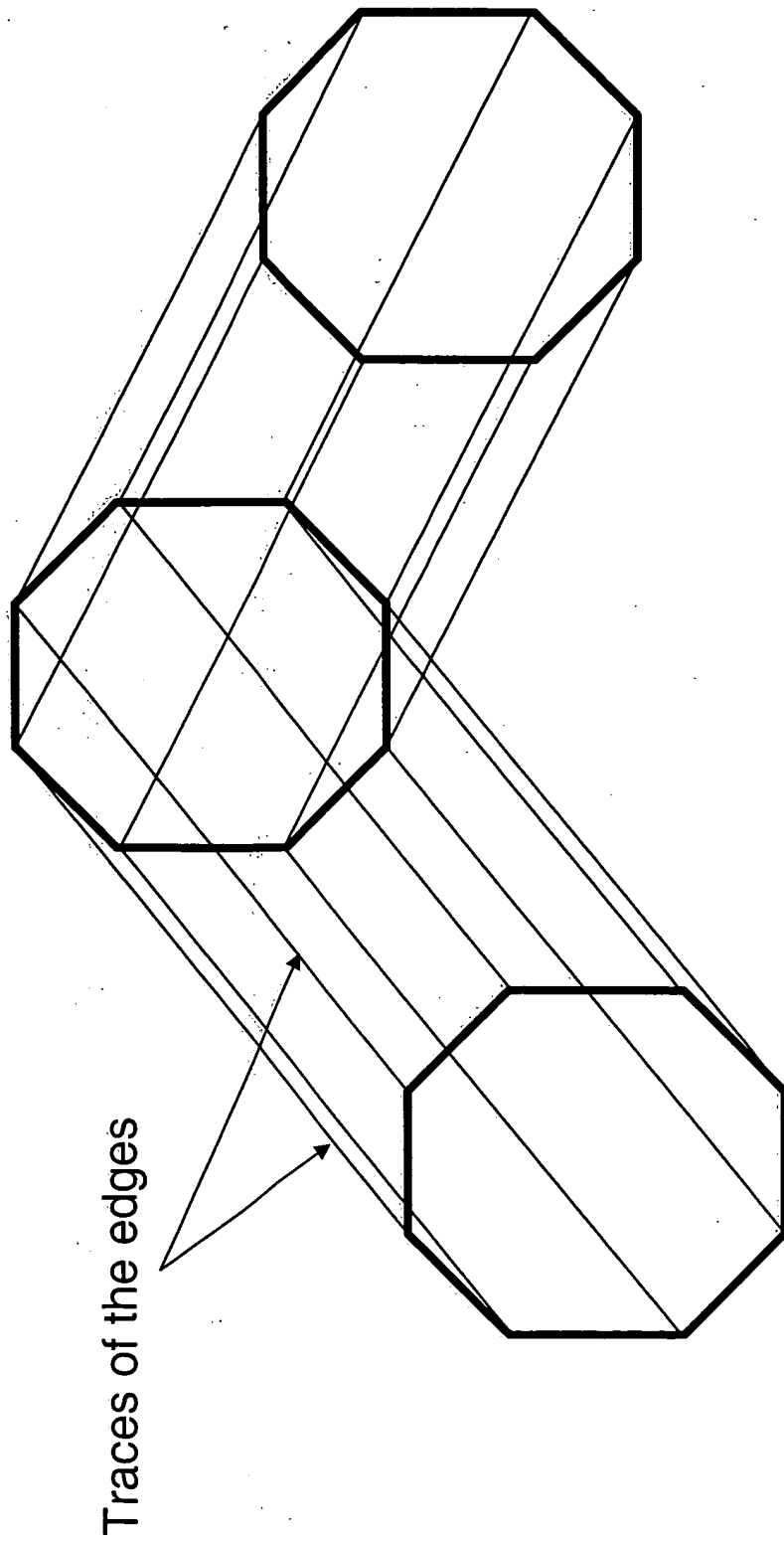


Fig. 6B

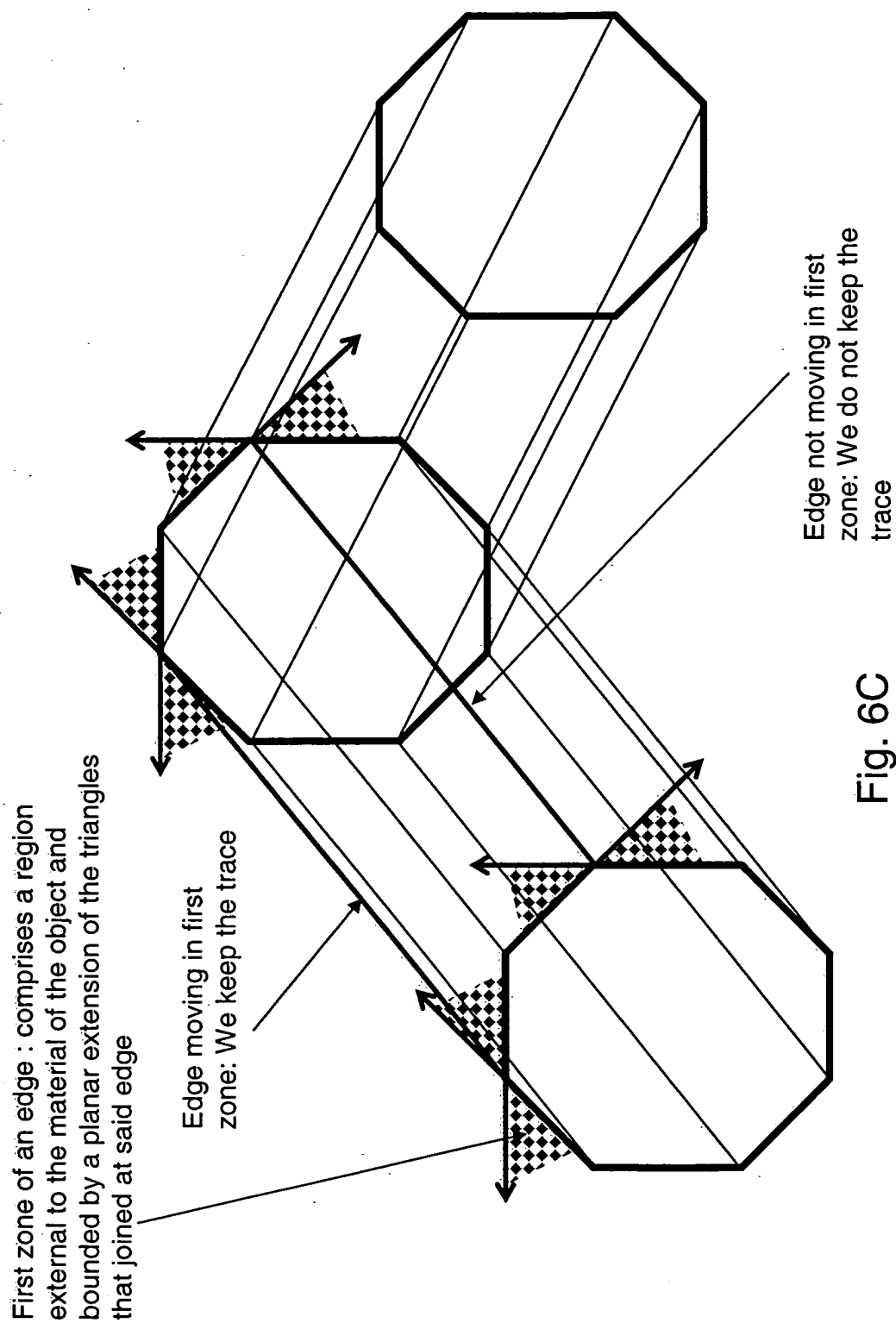
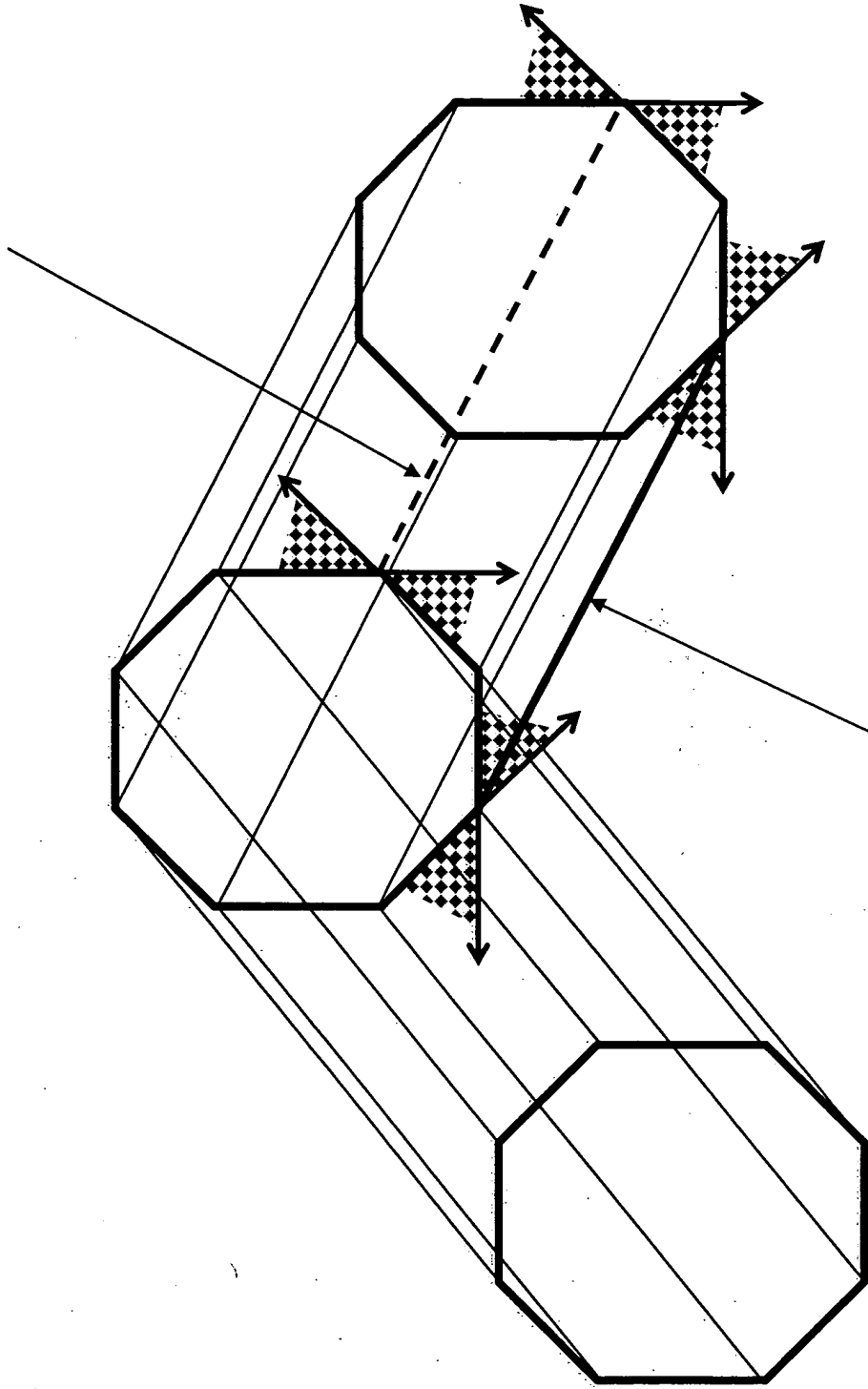


Fig. 6C

Edge not moving in first zone:
We do not keep the trace



Edge moving in first zone:
We keep the trace

Fig. 6D

Resulting set of kept traces
In solid, generated traces of the motion of the subset of edges

Dashed: rejected
Solid: kept

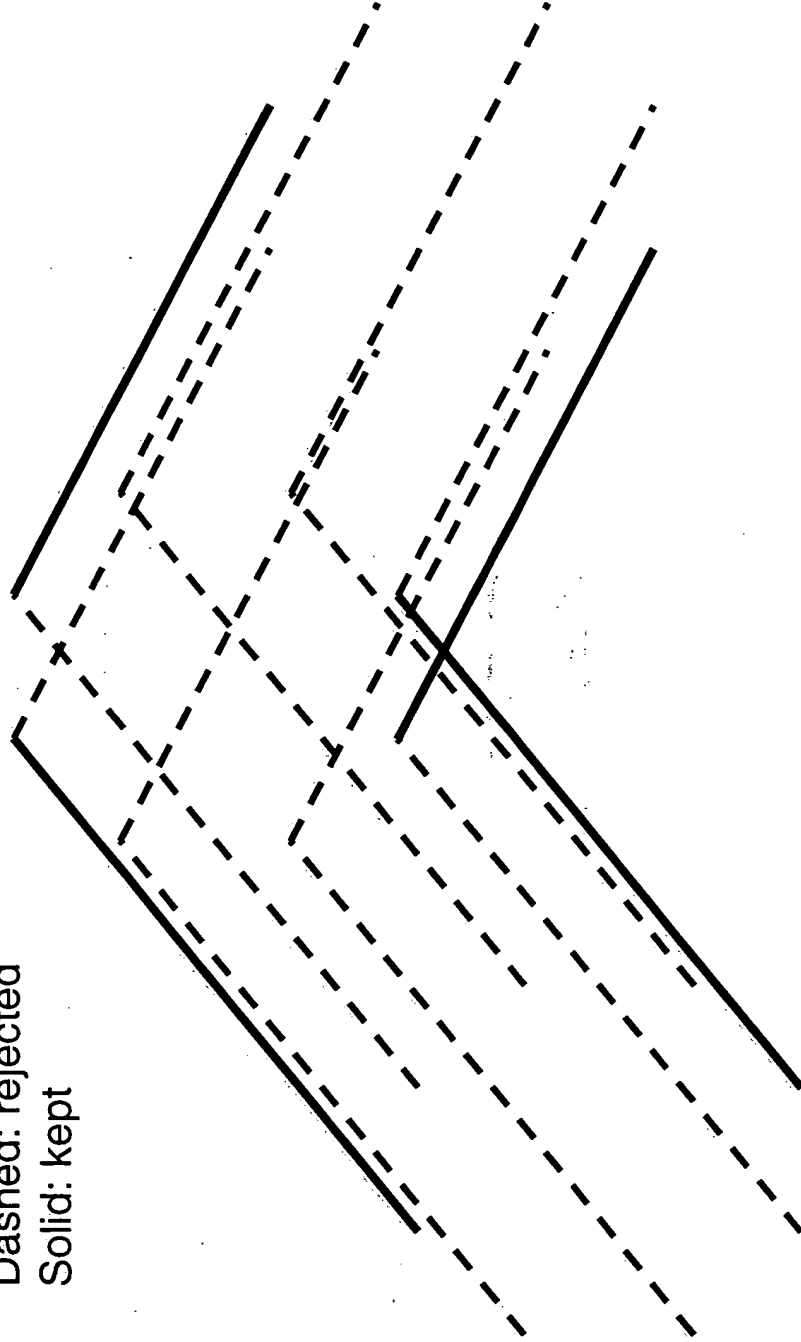


Fig. 6E

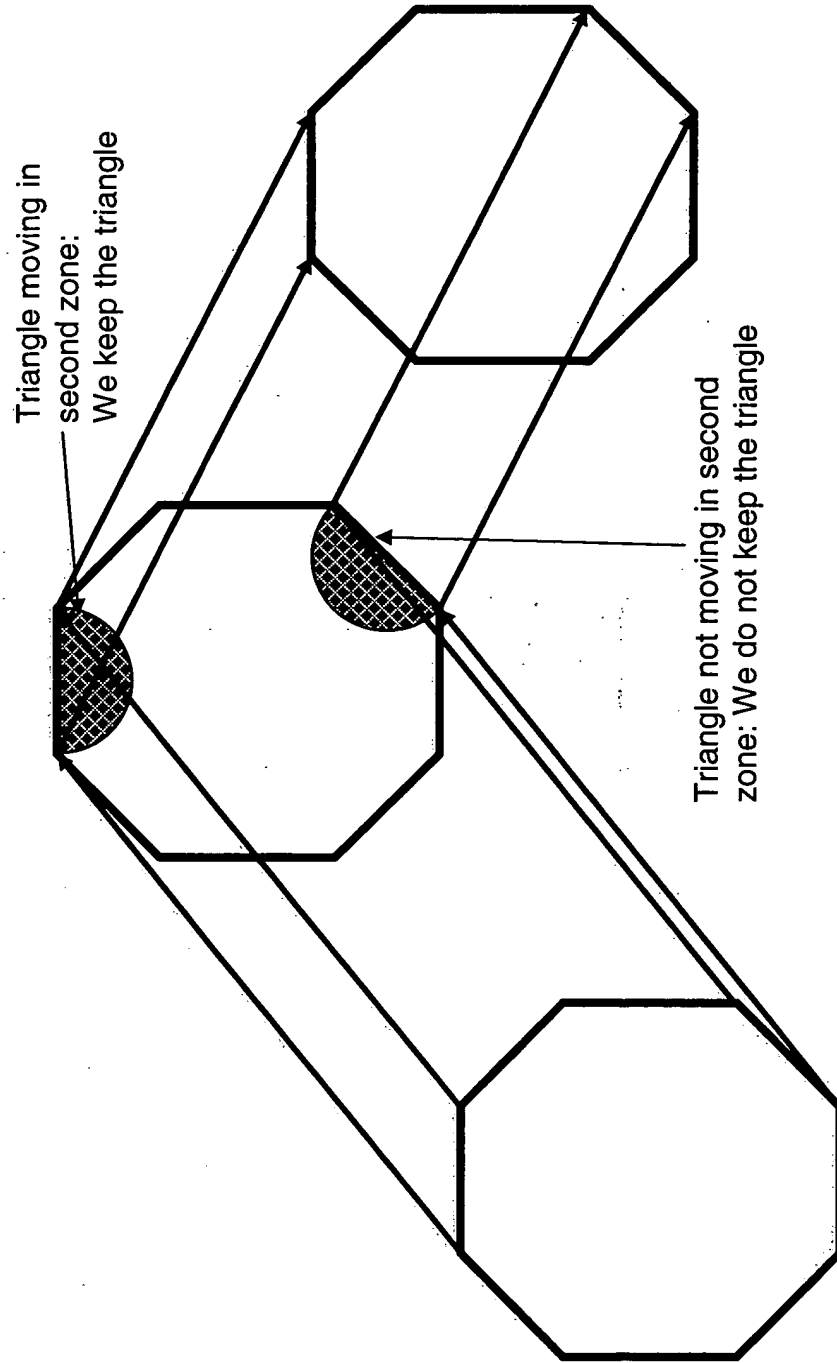
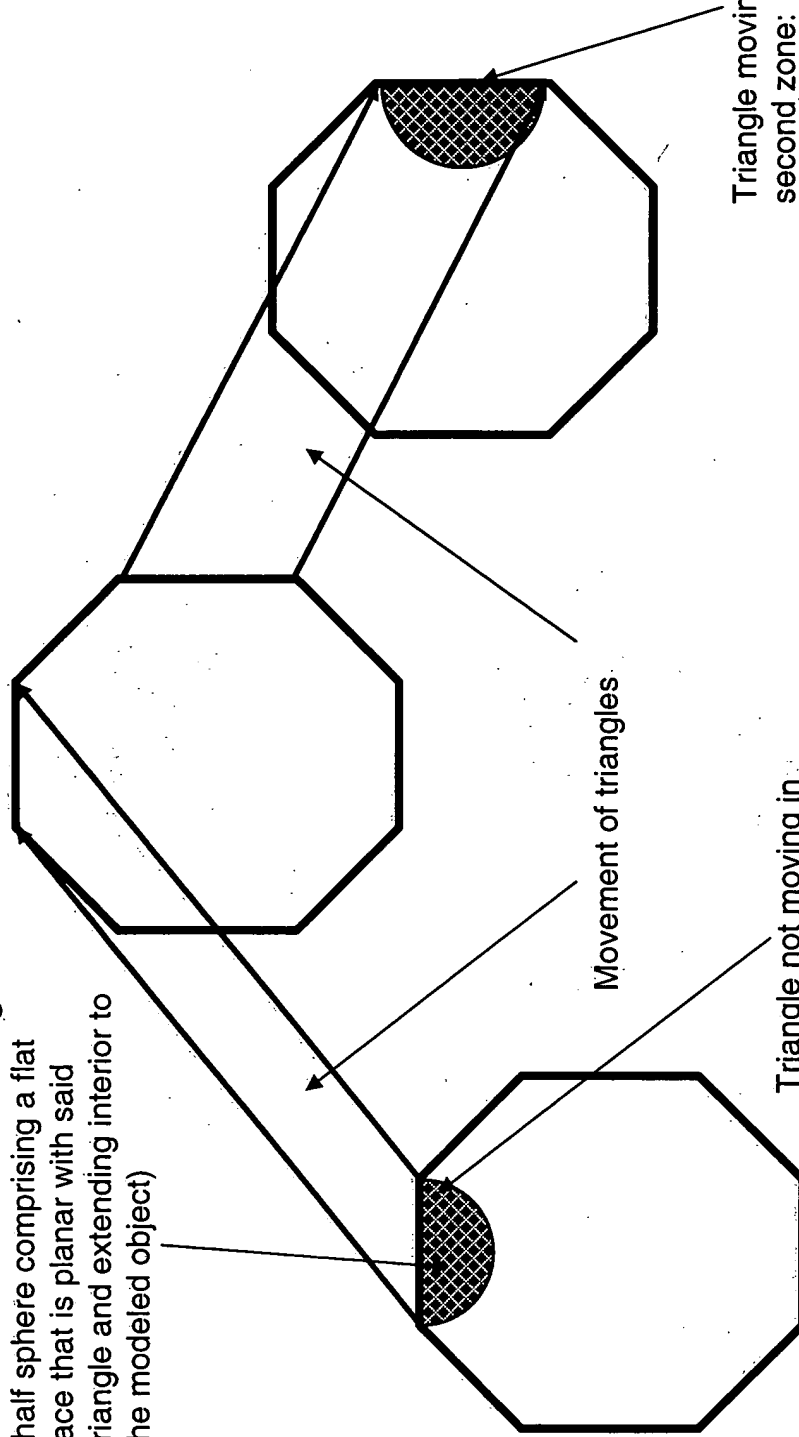


Fig. 6F

Selection of triangles moving in second zone

Second zone of a triangle
(half sphere comprising a flat face that is planar with said triangle and extending interior to the modeled object)



Triangle moving in second zone:
We keep the triangle

Triangle not moving in second zone: We do not keep the triangle

Fig. 6G

Resulting set of kept triangles:
Red: rejected
Solid: kept

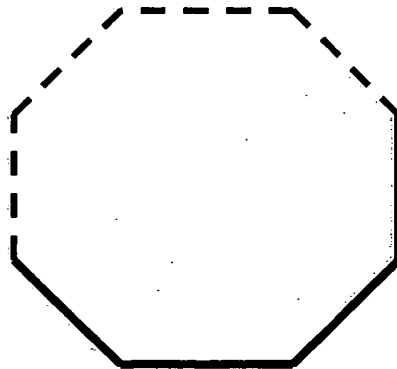
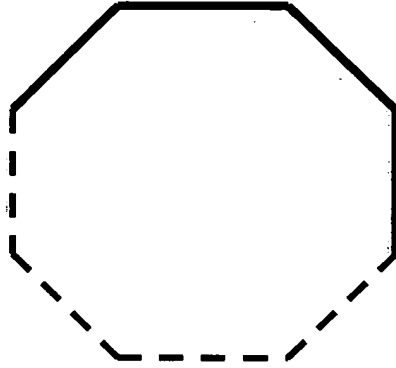
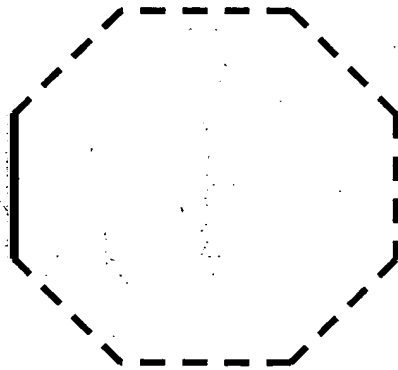


Fig. 6H